## Approved For Release 2005/06/01 : CIA-RDP80-00809A000500760051-9 SECRET CENTRAL INTELLIGENCE AGENCY ...-L.OFAX 29 INFORMATION REPORT 25X1 14 APRIL 52 DATE DISTR. GERMANY (Soviet Zone) COUNTRY : 25X1 NO. OF PAGES 25X1 SUBJECT : Information on Leuna Projects NO. OF ENCLS. PLACE ACQUIRED 25X1 SUPPLEMENT TO DATE ACQUIRED REPORT NC. 25X1 DATE OF INFORMATION THIS IS UNEVALUATED INFORMATION 25X1 l. 25X1 One project worked out by the KIB (Konstruktions 25X1 Ingenieurs Buro) was a plan for isobutyl fractionation a copy of the KIB flow sheet, dated 9 Sep 46, for this fractionation process. See Enclosure (A) The isobutyl fraction is sometimes referred to as "isobutyl oil"; this fraction, containing higher alcohols, is obtained in the synthesis of methyl alcohol from carbon monoxide and This project indicates that the Soviets are hydrogen. 25X1 interested in the production of higher alcohols 25X1 The Soviets were particularly interested in K-glue, (ď) called Kaurit, which is a urea-formaldehyde resin. shipped about 15-25 tons per month from Leuna to their own 25X1 economy The urea plant was not 25X1 it is now in in September

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25X1 at Leuna; it had been produced at Ludwigshafen.

steel, and considerable difficulty has been experienced with

There was always a large supply of urea stored

it is made of ordinary

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25X1 operation.

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Approved For Release 2005/06/01: CIA-RDP80-00809A000500760051-9 25X1 SECRET 25X1<sup>L</sup> 25X1 25X1 the Research and Organic Laboratories were working on the development of Perlon 25X1

thread, but they had not mastered the process by September 1950. Dr.

25X (Koethnig of the Research Laboratory had worked out a new method for caprolactam which he kept a very close secret. Dr Fritsche and Dr Deiters, both capable scientists, were also working in the caprolactam field. As for the production of caprolactam, a catalyst at 120°C and 150 atmospheres to form cyclohexanol. This is then oxidized by a method unknown to me to produce cyclohexanone, which is treated with hydroxylamine sulfate to give the oxime. This is then treated with 25X (sulfuric acid and rearranged to give caproloctam. the production of caprolactam was about 40 tons per month, and almost all of this was taken by the Soviets.

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25X1	There was very little research going on in the Organic Department at Leuna in the years 1945-50. The project that the Soviets were most interested in was the development of caprolactam, and on that project was expended the greatest
	amount of energy. The Soviets also showed interest in the development of urea production, because they needed the urea to make glue for laminated wood production. They also needed urea for the spongy resin, Iporka, used for insulating railway cars, especially refrigerator cars. 2-A oil made at Leuna is a mixture of \$8906 oil and spindle oil. The \$8906 oil is made by Dr Munzing in the Organic Laboratory. It is obtained by the polymerization of ethylene under pressure with aluminum chloride and then perhaps condensing with higher alcohols. The 2-A oil is a turbine oil for local Soviet Zone consumption and was not Soviet-inspired. It was developed because all available turbine oils were of inferior quality. At 50°C, it had a viscosity of 6-7 in an Engler viscosimeter.

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ENCLOSURE (A) Plan for Isobutyl Fractionation (Flow Sheet)

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